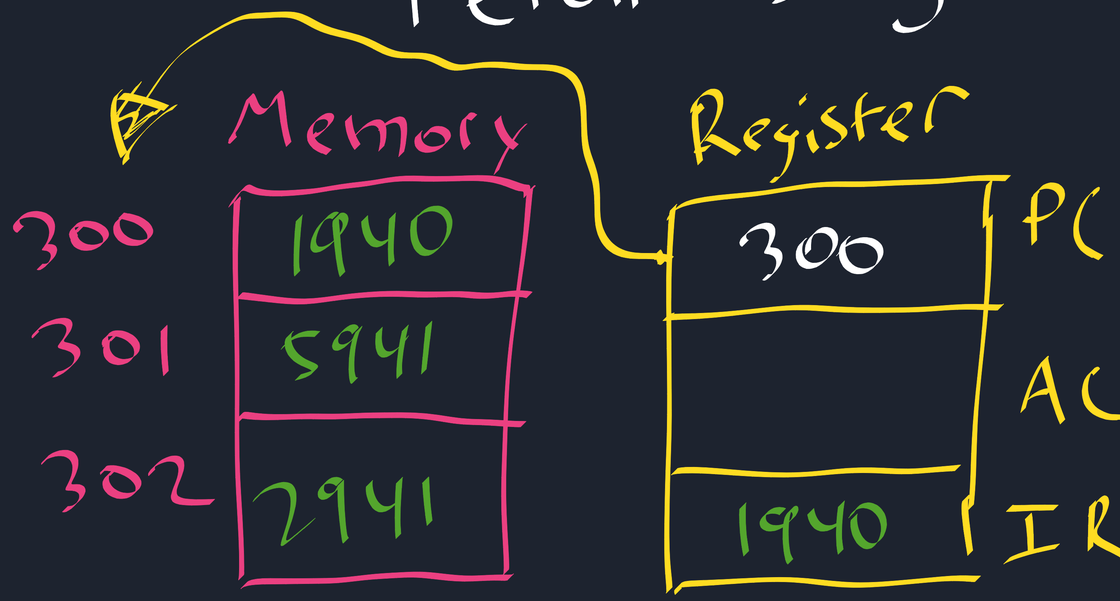
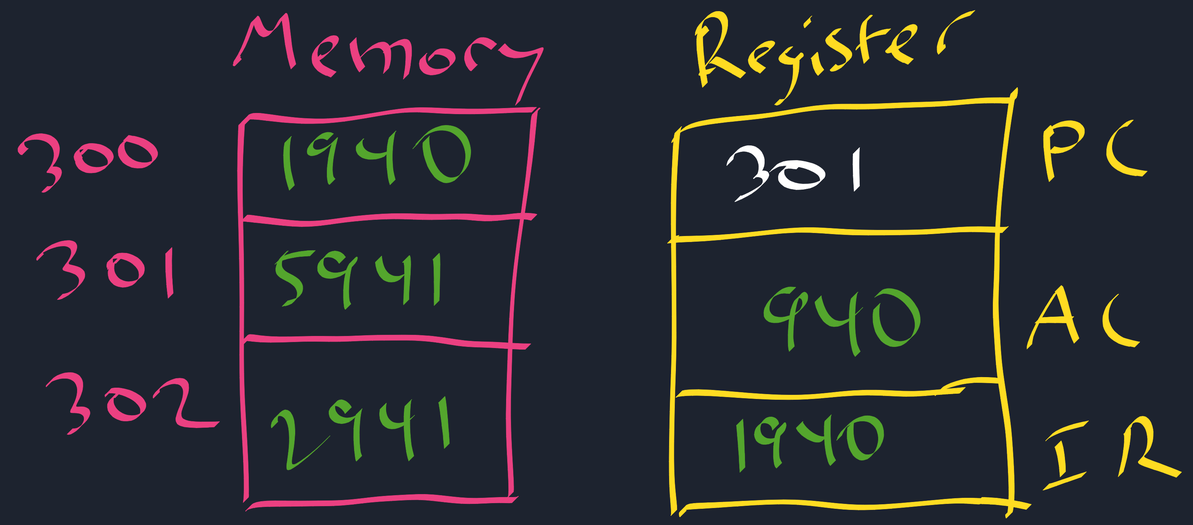
Instruction Cycle Example

Fetch Stage



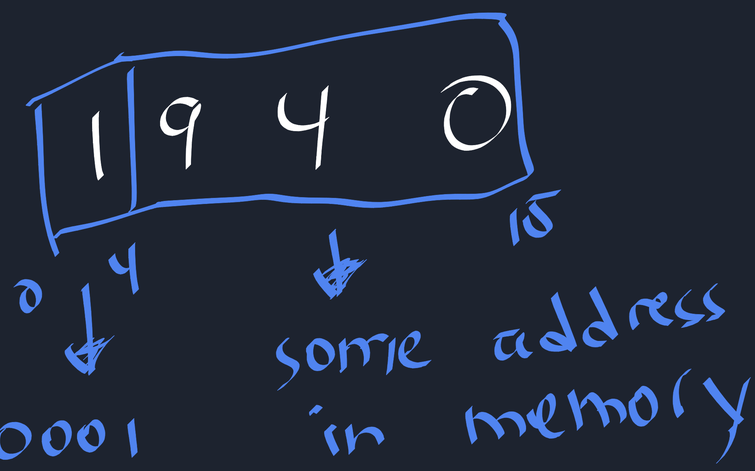
Execute Stage



0001 - Load AC from memory

0010 - Store AC to memory

0101 - Add to AC to memory



Fetch Stage

Memory

300	1940
301	5941
302	2941

Register

301	PC
940	AC
5941	IR

Execute Stage

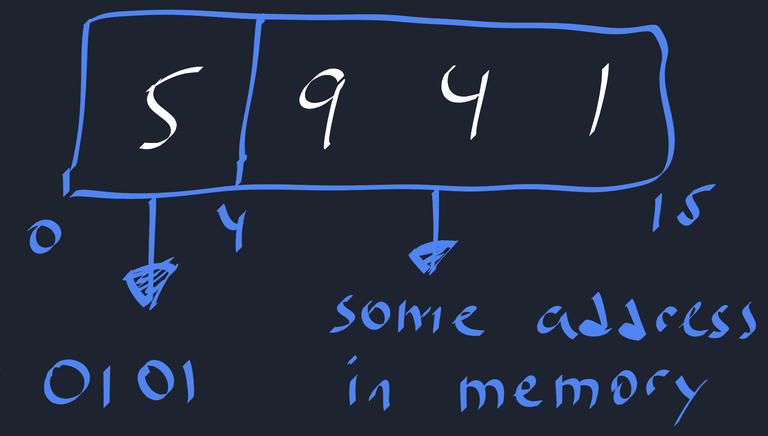
Memory

300	1940
301	5941
302	2941

Register

302	PC
940+941	AC
5941	IR

0001 - Load AC from memory

0010 - Store AC to memory

0101 - Add to AC to memory